

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-86746-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 01/21/2013
 Date: 03/04/2013
 Date: 03/05/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 660-133828/1-A: Phenanthrene @ 4.64 µg/Kg (RL 8.0, MDL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 012113-RB-(SIEVE) (680-86746-54).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank [012113-RB-(SIEVE)] (680-86746-54).was collected during the week of 01/21/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-86746-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			<p>Blank contamination action levels (BCAL)³:</p> <ul style="list-style-type: none"> Phenanthrene: 23.2 µg/Kg (4.64 µg/Kg x 5) <p>Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.</p>	U
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> HP0320Q-CSD (680-86746-18) and HP0320Q-CS (680-86746-17) HP0320R-CSD (680-86746-20) and HP0320R-CS (680-86746-19) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample 	✓			<ul style="list-style-type: none"> Instrument ID: BSMA5973 Initial Calibration: 01/30/2013 ICV: 01/30/13 @ 13:35 CCV: 01/31/13 @ 11:39 & 02/01/2013 @ 11:41 Instrument ID: BSMC5973 Initial Calibration: 01/07/2013 	

³ BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.				• ICV: 01/07/13 @ 17:31 • CCV: 02/04/13 @ 11:49	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤ 15 mean %RSD with no individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): ○ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): ○ If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds	✓			ICV of 01/30/13 @ 13:35, instrument BSMA5973: 2-Methylnaphthalene @23.7 %D (Lab: ≤ 35 , Project: ≤ 20). Positive bias is indicated by the CCV percent difference; therefore, J-flag detected results in associated samples ⁴	J
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R $>$ Upper Control Limit (UCL) and J/R-flag results when %R $<$ Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 133828: 680-86746-2 (HP0320B-CS), MS/MSD • Prep Batch 133843: 680-86746-25 (FM0283A-CS), MS/MSD. Lab sample 680-86746-25 is a project-specific sample (FM0283A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and native sample results were reported under Job ID 680-86746-2.	

⁴ 680-86746-1 through 12, and 14 through 22

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> Prep Batch 133870: 680-86746-21 (HP0320S-CS), MS/MSD Prep Batch 133980: 680-86887-23 (Batch sample), MS/MSD 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. MS and MSD %R<10: J and R Flag positive and ND results, respectively MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results MS and MSD R% >UCL (or 140): J-Flag positive results 	✓			<p>HP0320B-CS (680-86746-2):</p> <ul style="list-style-type: none"> Chrysene @ 95 and 134 %R (41-130). Qualification of data not required⁵. Fluoranthene @ 113 and 144%R (40-130). Qualification of data not required⁵. 	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications?	✓				

⁵ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 R The sample results are unusable. The analyte may or may not be present in the sample.
 U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
 UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-86746-1	HP0320A-CS	Solid	01/21/13 09:41	01/23/13 09:31
680-86746-2	HP0320B-CS	Solid	01/21/13 09:49	01/23/13 09:31
680-86746-3	HP0320C-CS	Solid	01/21/13 10:00	01/23/13 09:31
680-86746-4	HP0320D-CS	Solid	01/21/13 09:54	01/23/13 09:31
680-86746-5	HP0320E-CS	Solid	01/21/13 10:09	01/23/13 09:31
680-86746-6	HP0320F-CS	Solid	01/21/13 10:13	01/23/13 09:31
680-86746-7	HP0320G-CS	Solid	01/21/13 10:17	01/23/13 09:31
680-86746-8	HP0320H-CS	Solid	01/21/13 10:19	01/23/13 09:31
680-86746-9	HP0320I-CS	Solid	01/21/13 10:24	01/23/13 09:31
680-86746-10	HP0320J-CS	Solid	01/21/13 10:22	01/23/13 09:31
680-86746-11	HP0320K-CS	Solid	01/21/13 10:28	01/23/13 09:31
680-86746-12	HP0320L-GS	Solid	01/21/13 10:43	01/23/13 09:31
680-86746-13	HP0320M-GS	Solid	01/21/13 10:50	01/23/13 09:31
680-86746-14	HP0320N-GS	Solid	01/21/13 10:40	01/23/13 09:31
680-86746-15	HP0320O-GS	Solid	01/21/13 10:35	01/23/13 09:31
680-86746-16	HP0320P-GS	Solid	01/21/13 10:47	01/23/13 09:31
680-86746-17	HP0320Q-CS	Solid	01/21/13 11:27	01/23/13 09:31
680-86746-18	HP0320Q-CSD	Solid	01/21/13 11:30	01/23/13 09:31
680-86746-19	HP0320R-CS	Solid	01/21/13 11:41	01/23/13 09:31
680-86746-20	HP0320R-CSD	Solid	01/21/13 11:43	01/23/13 09:31
680-86746-21	HP0320S-CS	Solid	01/21/13 11:32	01/23/13 09:31
680-86746-22	HP0320T-CS	Solid	01/21/13 11:38	01/23/13 09:31

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	HP0320Q-CS 680-86746-17	RL	HP0320Q-CSD 680-86746-18	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	7.8 J	61	8.3 J	65	µg/kg	315	NA	0.5	126	None, absolute difference ≤ 2x Avg RL
Anthracene	16	13	13	14	µg/kg	67.5	NA	3	27	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	54	12	49	13	µg/kg	62.5	NA	5	25	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	40	16	35	17	µg/kg	82.5	NA	5	33	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	76	18	73	20	µg/kg	95	NA	3	38	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	45	30	40	32	µg/kg	155	NA	5	62	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	23	12	14	13	µg/kg	62.5	NA	9	25	None, absolute difference ≤ 2x Avg RL
Chrysene	69	14	63	15	µg/kg	72.5	NA	6	29	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	18 J	30	14 J	32	µg/kg	155	NA	4	62	None, absolute difference ≤ 2x Avg RL
Fluoranthene	83	30	68	32	µg/kg	155	NA	15	62	None, absolute difference ≤ 2x Avg RL
Fluorene	7.2 J	30	U	32	µg/kg	155	NA	7.2	62	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	32	30	36	32	µg/kg	155	NA	4	62	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	31 J	61	30 J	65	µg/kg	315	NA	1	126	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	42 J	61	39 J	65	µg/kg	315	NA	3	126	None, absolute difference ≤ 2x Avg RL
Naphthalene	56 J	61	51 J	65	µg/kg	315	NA	5	126	None, absolute difference ≤ 2x Avg RL
Phenanthrene	73	12	58	13	µg/kg	62.5	NA	15	25	None, absolute difference ≤ 2x Avg RL
Pyrene	50	30	45	32	µg/kg	155	NA	5	62	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

U - Not detected

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	HP0320R-CS 680-86746-19	RL	HP0320R-CSD 680-86746-20	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	29 J	43		U	65 µg/kg	270	NA	29	108	None, absolute difference ≤ 2x Avg RL
Anthracene	50	9		34	14 µg/kg	57.5	NA	16	23	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	180	8.6		94	13 µg/kg	54	63	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	180	11		67	17 µg/kg	70	NA	113	28	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	270	13		110	20 µg/kg	82.5	84	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	180	21		62	32 µg/kg	132.5	NA	118	53	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	130	8.6		35	13 µg/kg	54	NA	95	21.6	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	260	9.6		99	15 µg/kg	61.5	90	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	58	21		25 J	32 µg/kg	132.5	NA	33	53	None, absolute difference ≤ 2x Avg RL
Fluoranthene	300	21		160	32 µg/kg	132.5	61	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	13 J	21		20 J	32 µg/kg	132.5	NA	7	53	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	140	21		54	32 µg/kg	132.5	NA	86	53	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	75	43		26 J	65 µg/kg	270	NA	49	108	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	96	43		40 J	65 µg/kg	270	NA	56	108	None, absolute difference ≤ 2x Avg RL
Naphthalene	120	43		50 J	65 µg/kg	270	NA	70	108	None, absolute difference ≤ 2x Avg RL
Phenanthrene	220	8.6		130	13 µg/kg	54	51	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	200	21		110	32 µg/kg	132.5	NA	90	53	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
SDG: 68086746-1

Job ID: 680-86746-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-86746-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.0 C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0320A-CS (680-86746-1), HP0320B-CS (680-86746-2), HP0320C-CS (680-86746-3), HP0320D-CS (680-86746-4), HP0320E-CS (680-86746-5), HP0320F-CS (680-86746-6), HP0320G-CS (680-86746-7), HP0320H-CS (680-86746-8), HP0320I-CS (680-86746-9), HP0320J-CS (680-86746-10), HP0320K-CS (680-86746-11), HP0320L-GS (680-86746-12), HP0320M-GS (680-86746-13), HP0320N-GS (680-86746-14), HP0320O-GS (680-86746-15), HP0320P-GS (680-86746-16), HP0320Q-CS (680-86746-17), HP0320Q-CSD (680-86746-18), HP0320R-CS (680-86746-19), HP0320R-CSD (680-86746-20), HP0320S-CS (680-86746-21) and HP0320T-CS (680-86746-22) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 01/28/2013, 01/29/2013 and 02/01/2013 and analyzed on 01/30/2013, 01/31/2013, 02/01/2013 and 02/04/2013.

Phenanthrene was detected in method blank MB 660-133828/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Chrysene and Fluoranthene recovered outside the recovery criteria for the MSD of sample HP0320B-CSMSD (680-86746-2) in batch 660-133924.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-86746-25 in batch 660-133964.

Refer to the QC report for details.

Samples HP0320A-CS (680-86746-1)[4X], HP0320B-CS (680-86746-2)[4X], HP0320C-CS (680-86746-3)[4X], HP0320D-CS (680-86746-4)[4X], HP0320E-CS (680-86746-5)[4X], HP0320F-CS (680-86746-6)[4X], HP0320G-CS (680-86746-7)[4X], HP0320I-CS (680-86746-9)[4X], HP0320J-CS (680-86746-10)[4X], HP0320K-CS (680-86746-11)[4X], HP0320N-GS (680-86746-14)[4X], HP0320O-GS (680-86746-15)[4X] and HP0320P-GS (680-86746-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320A-CS

Date Collected: 01/21/13 09:41
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-1

Matrix: Solid
 Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Acenaphthylene	58	J	210	27	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Anthracene	160		45	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Benzo[a]anthracene	460		42	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Benzo[a]pyrene	380		55	28	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Benzo[b]fluoranthene	570		65	32	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Benzo[g,h,i]perylene	350		110	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Benzo[k]fluoranthene	260		42	19	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Chrysene	550		48	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Dibenz(a,h)anthracene	130		110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Fluoranthene	820		110	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Fluorene	39	J	110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Indeno[1,2,3-cd]pyrene	300		110	38	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
2-Methylnaphthalene	160	✗ J	210	38	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Naphthalene	240		210	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Phenanthrene	570	✗	42	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Pyrene	500		110	20	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:43	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	114		30 - 130				01/28/13 07:42	01/30/13 21:43	4

Client Sample ID: HP0320B-CS

Date Collected: 01/21/13 09:49
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-2

Matrix: Solid
 Percent Solids: 71.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Acenaphthylene	69	J	220	28	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Anthracene	120		47	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Benzo[a]anthracene	370		45	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Benzo[a]pyrene	340		58	29	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Benzo[b]fluoranthene	560		68	34	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Benzo[g,h,i]perylene	340		110	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Benzo[k]fluoranthene	160		45	20	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Chrysene	520	✗	50	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Dibenz(a,h)anthracene	120		110	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Fluoranthene	580	✗	110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Fluorene	55	J	110	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Indeno[1,2,3-cd]pyrene	240		110	40	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
1-Methylnaphthalene	200	J	220	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
2-Methylnaphthalene	250	✗ J	220	40	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Naphthalene	400		220	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Phenanthrene	470	✗	45	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Pyrene	360		110	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 21:58	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	98		30 - 130				01/28/13 07:42	01/30/13 21:58	4

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320C-CS

Date Collected: 01/21/13 10:00
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-3

Matrix: Solid
 Percent Solids: 73.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Acenaphthylene	590		220	27	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Anthracene	760		46	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Benzo[a]anthracene	910		44	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Benzo[a]pyrene	1100		57	28	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Benzo[b]fluoranthene	1900		67	33	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Benzo[g,h,i]perylene	1000		110	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Benzo[k]fluoranthene	880		44	20	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Chrysene	1200		49	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Dibenz(a,h)anthracene	360		110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Fluoranthene	1100		110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Fluorene	54	J	110	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Indeno[1,2,3-cd]pyrene	1000		110	39	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
1-Methylnaphthalene	230		220	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
2-Methylnaphthalene	250	J	220	39	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Naphthalene	390		220	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Phenanthrene	570	B	44	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Pyrene	830		110	20	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:43	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		106		30 - 130			01/28/13 07:42	01/30/13 22:43	4

Client Sample ID: HP0320D-CS

Date Collected: 01/21/13 09:54
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-4

Matrix: Solid
 Percent Solids: 67.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Acenaphthylene	96	J	240	30	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Anthracene	130		50	25	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Benzo[a]anthracene	320		47	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Benzo[a]pyrene	270		62	31	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Benzo[b]fluoranthene	460		72	36	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Benzo[g,h,i]perylene	250		120	26	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Benzo[k]fluoranthene	230		47	21	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Chrysene	460		53	27	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Dibenz(a,h)anthracene	110	J	120	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Fluoranthene	420		120	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Fluorene	59	J	120	24	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Indeno[1,2,3-cd]pyrene	240		120	42	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
1-Methylnaphthalene	180	J	240	26	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
2-Methylnaphthalene	220	✓ J	240	42	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Naphthalene	390		240	26	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Phenanthrene	420	B	47	23	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Pyrene	250		120	22	ug/Kg	⊗	01/28/13 07:42	01/30/13 22:58	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		119		30 - 130			01/28/13 07:42	01/30/13 22:58	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320E-CS

Date Collected: 01/21/13 10:09
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-5

Matrix: Solid
 Percent Solids: 67.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Acenaphthylene	94	J	240	30	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Anthracene	290		50	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Benzo[a]anthracene	1100		47	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Benzo[a]pyrene	910		61	31	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Benzo[b]fluoranthene	1600		72	36	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Benzo[g,h,i]perylene	880		120	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Benzo[k]fluoranthene	550		47	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Chrysene	1300		53	27	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Dibenz(a,h)anthracene	330		120	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Fluoranthene	1800		120	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Fluorene	94	J	120	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Indeno[1,2,3-cd]pyrene	820		120	42	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
1-Methylnaphthalene	200	J	240	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
2-Methylnaphthalene	240	J	240	42	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Naphthalene	420		240	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Phenanthrene	1100	R	47	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Pyrene	1500		120	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:10	4
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	115			30 - 130			01/28/13 07:42	01/31/13 12:10	4

Client Sample ID: HP0320F-CS

Date Collected: 01/21/13 10:13
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-6

Matrix: Solid
 Percent Solids: 80.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Acenaphthylene	46	J	200	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Anthracene	65		42	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Benzo[a]anthracene	220		40	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Benzo[a]pyrene	240		51	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Benzo[b]fluoranthene	400		60	30	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Benzo[g,h,i]perylene	310		99	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Benzo[k]fluoranthene	120		40	18	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Chrysene	280		45	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Dibenz(a,h)anthracene	120		99	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Fluoranthene	240		99	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Fluorene	24	J	99	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Indeno[1,2,3-cd]pyrene	290		99	35	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
1-Methylnaphthalene	120	J	200	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
2-Methylnaphthalene	200	J	200	35	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Naphthalene	260		200	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Phenanthrene	200	R	40	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Pyrene	230		99	18	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:26	4
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	102			30 - 130			01/28/13 07:42	01/31/13 12:26	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320G-CS

Date Collected: 01/21/13 10:17
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-7

Matrix: Solid
 Percent Solids: 74.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Acenaphthylene	35	J	220	27	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Anthracene	58		45	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Benzo[a]anthracene	280		43	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Benzo[a]pyrene	190		56	28	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Benzo[b]fluoranthene	330		66	33	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Benzo[g,h,i]perylene	240		110	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Benzo[k]fluoranthene	100		43	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Chrysene	270		48	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Dibenz(a,h)anthracene	92	J	110	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Fluoranthene	290		110	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Fluorene	110	U	110	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Indeno[1,2,3-cd]pyrene	200		110	38	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
1-Methylnaphthalene	58	J	220	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
2-Methylnaphthalene	87	✓ J	220	38	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Naphthalene	130	J	220	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Phenanthrene	210	✓ B	43	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Pyrene	260		110	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:41	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	113			30 - 130			01/28/13 07:42	01/31/13 12:41	4

Client Sample ID: HP0320H-CS

Date Collected: 01/21/13 10:19
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-8

Matrix: Solid
 Percent Solids: 76.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Acenaphthylene	11	J	52	6.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Anthracene	22		11	5.5	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Benzo[a]anthracene	100		10	5.1	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Benzo[a]pyrene	96		14	6.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Benzo[b]fluoranthene	150		16	8.0	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Benzo[g,h,i]perylene	100		26	5.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Benzo[k]fluoranthene	62		10	4.7	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Chrysene	130		12	5.9	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Dibenz(a,h)anthracene	34		26	5.4	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Fluoranthene	160		26	5.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Fluorene	9.2	J	26	5.4	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Indeno[1,2,3-cd]pyrene	100		26	9.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
1-Methylnaphthalene	28	J	52	5.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
2-Methylnaphthalene	34	✓ J	52	9.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Naphthalene	55		52	5.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Phenanthrene	90	✓ B	10	5.1	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Pyrene	140		26	4.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 12:56	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	91			30 - 130			01/28/13 07:42	01/31/13 12:56	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320I-CS

Date Collected: 01/21/13 10:24
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-9

Matrix: Solid
 Percent Solids: 64.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	620	U	620	120	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Acenaphthylene	38	J	250	31	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Anthracene	75		52	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Benzo[a]anthracene	370		50	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Benzo[a]pyrene	260		65	32	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Benzo[b]fluoranthene	430		76	38	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Benzo[g,h,i]perylene	320		120	27	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Benzo[k]fluoranthene	160		50	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Chrysene	410		56	28	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Dibenz(a,h)anthracene	130		120	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Fluoranthene	530		120	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Fluorene	120	U	120	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Indeno[1,2,3-cd]pyrene	260		120	44	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
1-Methylnaphthalene	110	J	250	27	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
2-Methylnaphthalene	160	✗ J	250	44	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Naphthalene	250		250	27	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Phenanthrene	360	✗	50	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Pyrene	440		120	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:11	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		96			30 - 130		01/28/13 07:42	01/31/13 13:11	4

Client Sample ID: HP0320J-CS

Date Collected: 01/21/13 10:22
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-10

Matrix: Solid
 Percent Solids: 70.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240	J	570	110	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Acenaphthylene	120	J	230	28	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Anthracene	530		47	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Benzo[a]anthracene	1400		45	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Benzo[a]pyrene	960		59	29	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Benzo[b]fluoranthene	1600		69	34	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Benzo[g,h,i]perylene	830		110	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Benzo[k]fluoranthene	530		45	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Chrysene	1500		51	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Dibenz(a,h)anthracene	310		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Fluoranthene	3100		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Fluorene	230		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Indeno[1,2,3-cd]pyrene	640		110	40	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
1-Methylnaphthalene	170	J	230	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
2-Methylnaphthalene	180	✗ J	230	40	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Naphthalene	270		230	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Phenanthrene	2600	✗	45	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Pyrene	1900		110	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:26	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		92			30 - 130		01/28/13 07:42	01/31/13 13:26	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320K-CS

Date Collected: 01/21/13 10:28
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-11

Matrix: Solid
 Percent Solids: 70.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	720		570	110	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Acenaphthylene	81	J	230	29	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Anthracene	1700		48	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Benzo[a]anthracene	5300		46	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Benzo[a]pyrene	3900		59	30	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Benzo[b]fluoranthene	6400		70	35	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Benzo[g,h,i]perylene	3200		110	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Benzo[k]fluoranthene	2000		46	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Chrysene	5000		51	26	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Dibenz(a,h)anthracene	1200		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Fluoranthene	11000		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Fluorene	650		110	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Indeno[1,2,3-cd]pyrene	3000		110	41	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
1-Methylnaphthalene	160	J	230	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
2-Methylnaphthalene	210	✗ J	230	41	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Naphthalene	290		230	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Phenanthrene	7200	✗	46	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Pyrene	6400		110	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 13:41	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		97			30 - 130		01/28/13 07:42	01/31/13 13:41	4

Client Sample ID: HP0320L-GS

Date Collected: 01/21/13 10:43
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-12

Matrix: Solid
 Percent Solids: 79.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Acenaphthylene	50	U	50	6.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Anthracene	11	U	11	5.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Benzo[a]anthracene	22		10	4.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Benzo[a]pyrene	9.3	J	13	6.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Benzo[b]fluoranthene	15		15	7.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Benzo[g,h,i]perylene	9.6	J	25	5.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Benzo[k]fluoranthene	6.8	J	10	4.5	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Chrysene	11		11	5.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Dibenz(a,h)anthracene	25	U	25	5.2	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Fluoranthene	22	J	25	5.0	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Fluorene	25	U	25	5.2	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Indeno[1,2,3-cd]pyrene	9.6	J	25	9.0	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
1-Methylnaphthalene	6.4	J	50	5.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
2-Methylnaphthalene	50	U	50	9.0	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Naphthalene	50	U	50	5.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Phenanthrene	18	✗ U	10	4.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Pyrene	12	J	25	4.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:12	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		84			30 - 130		01/28/13 10:08	01/31/13 17:12	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320M-GS

Date Collected: 01/21/13 10:50
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-13

Matrix: Solid
 Percent Solids: 84.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Acenaphthylene	47	U	47	5.9	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Anthracene	8.8	J	9.8	4.9	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1 OTIE, October 2012
Benzo[a]anthracene	65		9.4	4.6	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Benzo[a]pyrene	58		12	6.1	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Benzo[b]fluoranthene	96		14	7.1	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1 Alabama, Revision 1
Benzo[g,h,i]perylene	46		23	5.2	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Benzo[k]fluoranthene	40		9.4	4.2	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Chrysene	78		11	5.3	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Dibenz(a,h)anthracene	16	J	23	4.8	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Fluoranthene	140		23	4.7	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Fluorene	23	U	23	4.8	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Indeno[1,2,3-cd]pyrene	37		23	8.3	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
1-Methylnaphthalene	6.5	J	47	5.2	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
2-Methylnaphthalene	47	U	47	8.3	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Naphthalene	7.8	J	47	5.2	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Phenanthrene	71		9.4	4.6	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Pyrene	110		23	4.3	ug/Kg	⊗	02/01/13 09:42	02/04/13 13:46	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		90			30 - 130		02/01/13 09:42	02/04/13 13:46	1

Client Sample ID: HP0320N-GS

Date Collected: 01/21/13 10:40
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-14

Matrix: Solid
 Percent Solids: 60.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	660	U	660	130	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Acenaphthylene	260	U	260	33	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Anthracene	56	U	56	28	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Benzo[a]anthracene	120		53	26	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Benzo[a]pyrene	67	J	69	34	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Benzo[b]fluoranthene	100		81	40	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Benzo[g,h,i]perylene	75	J	130	29	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Benzo[k]fluoranthene	48	J	53	24	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Chrysene	85		60	30	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Fluoranthene	96	J	130	26	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Fluorene	130	U	130	27	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Indeno[1,2,3-cd]pyrene	68	J	130	47	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
1-Methylnaphthalene	31	J	260	29	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
2-Methylnaphthalene	260	U	260	47	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Naphthalene	71	J	260	29	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Phenanthrene	76	BU	53	26	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Pyrene	86	J	130	25	ug/Kg	⊗	01/28/13 07:42	02/01/13 12:12	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		82			30 - 130		01/28/13 07:42	02/01/13 12:12	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320O-GS

Date Collected: 01/21/13 10:35
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-15

Matrix: Solid
 Percent Solids: 83.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Acenaphthylene	55	J	190	24	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Anthracene	210		41	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Benzo[a]anthracene	640		39	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Benzo[a]pyrene	540		50	25	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Benzo[b]fluoranthene	900		59	29	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Benzo[g,h,i]perylene	520		96	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Benzo[k]fluoranthene	400		39	17	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Chrysene	830		43	22	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Dibenz(a,h)anthracene	180		96	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Fluoranthene	1400		96	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Fluorene	79	J	96	20	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Indeno[1,2,3-cd]pyrene	470		96	34	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
1-Methylnaphthalene	220		190	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
2-Methylnaphthalene	300	J	190	34	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Naphthalene	450		190	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Phenanthrene	910	✓	39	19	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Pyrene	720		96	18	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:26	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	72			30 - 130			01/28/13 07:42	01/31/13 14:26	4

Client Sample ID: HP0320P-GS

Date Collected: 01/21/13 10:47
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-16

Matrix: Solid
 Percent Solids: 71.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Acenaphthylene	220	U	220	28	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Anthracene	37	J	47	23	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Benzo[a]anthracene	130		45	22	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Benzo[a]pyrene	110		58	29	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Benzo[b]fluoranthene	170		68	34	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Benzo[g,h,i]perylene	100	J	110	25	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Benzo[k]fluoranthene	67		45	20	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Chrysene	170		50	25	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Dibenz(a,h)anthracene	30	J	110	23	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Fluoranthene	200		110	22	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Fluorene	110	U	110	23	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Indeno[1,2,3-cd]pyrene	100	J	110	40	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
1-Methylnaphthalene	36	J	220	25	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
2-Methylnaphthalene	50	✓ J	220	40	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Naphthalene	55	J	220	25	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Phenanthrene	120	U	45	22	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Pyrene	140		110	21	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:27	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	91			30 - 130			01/28/13 10:08	01/31/13 17:27	4

Sample results have been qualified.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320Q-CS

Date Collected: 01/21/13 11:27
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-17

Matrix: Solid
 Percent Solids: 65.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Acenaphthylene	7.8	J	61	7.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Anthracene	16		13	6.4	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Benzo[a]anthracene	54		12	5.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Benzo[a]pyrene	40		16	7.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Benzo[b]fluoranthene	76		18	9.2	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Benzo[g,h,i]perylene	45		30	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Benzo[k]fluoranthene	23		12	5.5	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Chrysene	69		14	6.8	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Dibenz(a,h)anthracene	18	J	30	6.2	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Fluoranthene	83		30	6.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Fluorene	7.2	J	30	6.2	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Indeno[1,2,3-cd]pyrene	32		30	11	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
1-Methylnaphthalene	31	J	61	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
2-Methylnaphthalene	42	✓ J	61	11	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Naphthalene	56	J	61	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Phenanthrene	73		12	5.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Pyrene	50		30	5.6	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:42	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		97		30 - 130			01/28/13 10:08	01/31/13 17:42	1

Client Sample ID: HP0320Q-CSD

Date Collected: 01/21/13 11:30
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-18

Matrix: Solid
 Percent Solids: 61.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Acenaphthylene	8.3	J	65	8.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Anthracene	13	J	14	6.8	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Benzo[a]anthracene	49		13	6.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Benzo[a]pyrene	35		17	8.4	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Benzo[b]fluoranthene	73		20	9.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Benzo[g,h,i]perylene	40		32	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Benzo[k]fluoranthene	14		13	5.8	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Chrysene	63		15	7.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Dibenz(a,h)anthracene	14	J	32	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Fluoranthene	68		32	6.5	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Fluorene	32	U	32	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Indeno[1,2,3-cd]pyrene	36		32	12	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
1-Methylnaphthalene	30	J	65	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
2-Methylnaphthalene	39	✓ J	65	12	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Naphthalene	51	J	65	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Phenanthrene	58		13	6.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Pyrene	45		32	6.0	ug/Kg	⊗	01/28/13 10:08	01/31/13 17:57	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		83		30 - 130			01/28/13 10:08	01/31/13 17:57	1

1 Sample results have been qualified in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320R-CS

Date Collected: 01/21/13 11:41
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-19

Matrix: Solid
 Percent Solids: 93.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Acenaphthylene	29	J	43	5.4	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Anthracene	50		9.0	4.5	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Benzo[a]anthracene	180	J	8.6	4.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Benzo[a]pyrene	180	J	11	5.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Benzo[b]fluoranthene	270	J	13	6.5	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Benzo[g,h,i]perylene	180	J	21	4.7	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Benzo[k]fluoranthene	130	J	8.6	3.9	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Chrysene	260	J	9.6	4.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Dibenz(a,h)anthracene	58		21	4.4	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Fluoranthene	300	J	21	4.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Fluorene	13	J	21	4.4	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Indeno[1,2,3-cd]pyrene	140	J	21	7.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
1-Methylnaphthalene	75		43	4.7	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
2-Methylnaphthalene	96	J	43	7.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Naphthalene	120		43	4.7	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Phenanthrene	220	J	8.6	4.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Pyrene	200	J	21	4.0	ug/Kg	⊗	01/28/13 07:42	01/31/13 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	103		30 - 130				01/28/13 07:42	01/31/13 14:41	1

Client Sample ID: HP0320R-CSD

Date Collected: 01/21/13 11:43
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-20

Matrix: Solid
 Percent Solids: 61.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Acenaphthylene	65	U	65	8.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Anthracene	34		14	6.8	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Benzo[a]anthracene	94	J	13	6.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Benzo[a]pyrene	67	J	17	8.4	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Benzo[b]fluoranthene	110	J	20	9.9	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Benzo[g,h,i]perylene	62	J	32	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Benzo[k]fluoranthene	35	J	13	5.8	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Chrysene	99	J	15	7.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Dibenz(a,h)anthracene	25	J	32	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Fluoranthene	160	J	32	6.5	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Fluorene	20	J	32	6.7	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Indeno[1,2,3-cd]pyrene	54	J	32	12	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
1-Methylnaphthalene	26	J	65	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
2-Methylnaphthalene	40	J	65	12	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Naphthalene	50	J	65	7.1	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Phenanthrene	130	J	13	6.3	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Pyrene	110	J	32	6.0	ug/Kg	⊗	01/28/13 10:08	01/31/13 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	84		30 - 130				01/28/13 10:08	01/31/13 18:12	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-86746-1
 SDG: 68086746-1

Client Sample ID: HP0320S-CS

Date Collected: 01/21/13 11:32
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-21

Matrix: Solid
 Percent Solids: 86.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Acenaphthylene	8.0	J	47	5.8	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Anthracene	14		9.8	4.9	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Benzo[a]anthracene	60		9.3	4.5	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Benzo[a]pyrene	42		12	6.1	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Benzo[b]fluoranthene	78		14	7.1	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Benzo[g,h,i]perylene	48		23	5.1	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Benzo[k]fluoranthene	24		9.3	4.2	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Chrysene	80		10	5.2	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Dibenz(a,h)anthracene	16	J	23	4.8	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Fluoranthene	88		23	4.7	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Fluorene	9.8	J	23	4.8	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Indeno[1,2,3-cd]pyrene	35		23	8.3	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
1-Methylnaphthalene	34	J	47	5.1	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
2-Methylnaphthalene	48	J	47	8.3	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Naphthalene	70		47	5.1	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Phenanthrene	76		9.3	4.5	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Pyrene	67		23	4.3	ug/Kg	⊗	01/29/13 09:02	01/30/13 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	71		30 - 130				01/29/13 09:02	01/30/13 16:09	1

Client Sample ID: HP0320T-CS

Date Collected: 01/21/13 11:38
 Date Received: 01/23/13 09:31

Lab Sample ID: 680-86746-22

Matrix: Solid
 Percent Solids: 85.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Acenaphthylene	11	J	47	5.9	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Anthracene	22		9.9	4.9	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Benzo[a]anthracene	73		9.4	4.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Benzo[a]pyrene	60		12	6.1	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Benzo[b]fluoranthene	90		14	7.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Benzo[g,h,i]perylene	56		23	5.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Benzo[k]fluoranthene	57		9.4	4.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Chrysene	100		11	5.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Dibenz(a,h)anthracene	21	J	23	4.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Fluoranthene	130		23	4.7	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Fluorene	9.6	J	23	4.8	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Indeno[1,2,3-cd]pyrene	50		23	8.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
1-Methylnaphthalene	41	J	47	5.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
2-Methylnaphthalene	56	J	47	8.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Naphthalene	74		47	5.2	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Phenanthrene	110	B	9.4	4.6	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Pyrene	85		23	4.3	ug/Kg	⊗	01/28/13 07:42	01/31/13 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	90		30 - 130				01/28/13 07:42	01/31/13 15:11	1

TestAmerica Savannah

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Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)
 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP